

Table 3. Assessment Variables Affected by Potential CALFED Bay-Delta Program Actions: Warmwater Riverine Community

CALFED Programs and Components	Cause of Variability	Affected Assessment Variable	
		Primary	Secondary
Conveyance	Change in reservoir operations due to changes in Delta diversion timing and volume	Instream flow	Sediment movement, diversion impacts, barriers, habitat, water quality, species interaction
	Change in coldwater releases, in addition to change in reservoir operations due to changes in Delta diversion timing and volume	Temperature	Habitat, species interaction
Storage	Change in reservoir operations due to changes in available storage volume and locations	Instream flow	Sediment movement, diversion impacts, barriers, habitat, water quality, species interaction
	Change in coldwater releases, in addition to change in reservoir operations due to changes in available storage volume and locations	Temperature	Habitat, species interaction
Water Use Efficiency	Change in reservoir operations due to changes in urban and agricultural water demand	Instream flow	Sediment movement, diversion impacts, barriers, habitat, water quality, species interaction
	Change in coldwater releases, in addition to change in reservoir operations due to changes in urban and agricultural water demand	Temperature	Habitat, species interaction

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CALFED Programs and Components	Cause of Variability	Affected Assessment Variable	
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Water Quality Improvements	Change in reservoir operations to provide water to dilute pollutant concentrations	Instream flow	Sediment movement, diversion impacts, barriers, habitat, species interaction
	Change in coldwater releases, in addition to change in reservoir operations to provide water to dilute pollutant concentrations	Temperature	Habitat, species interaction
	Reduction of discharges of water quality constituents of concern to aquatic habitats and water users, in addition to change in reservoir operations to provide water to dilute pollutant concentrations	Water quality	Habitat, species interaction
Ecosystem Restoration	Change in reservoir operations to provide environmental water	Instream flow	--
	Riparian habitat restoration that may provide shade, in addition to change in coldwater releases and change in reservoir operations to provide environmental water	Temperature	--
	Construction and restoration of habitat, in addition to change in reservoir operations to provide environmental water	Sediment movement	--

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Ecosystem Restoration	Improvement or installation of fish screens at water diversion facilities, in addition to change in reservoir operations to provide environmental water	Diversion impacts	--
	Modification of barriers that restrict fish passage and migration, in addition to change in reservoir operations to provide environmental water	Barriers	--
	Protection, enhancement, and restoration of physical habitat, in addition to change in coldwater releases and change in reservoir operations to provide environmental water	Habitat	--
	See "Water Quality Improvements"	Water quality	--
	Improvement of data management for fish harvest regulation	Fishing	--
	Management of fish hatchery production	Artificial production	--
	Control of introduced species, in addition to protection, enhancement, and restoration of physical habitat; change in coldwater releases; and change in reservoir operations to provide environmental water	Species interaction	--
Levee System Integrity	Not relevant to this aquatic community	--	--

Notes:

-- = not relevant.

A primary assessment variable is directly affected by a CALFED action that may be included in one of the programs and components.

A secondary assessment variable is indirectly affected by CALFED actions and changes in response to primary variables.
